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Comparison Chart

March 8, 2005

wherein said actuator comprises a shape memory material and/or a bimetal material. 95. (old claim 60) A method for controlling a flowed) A fuel concer valve for controlling a fluid comprising a first material producing electrical energy in said fuel cell; cell;
A method for controlling a 87. (allowed) A fuel concentration-actuated valve for controlling a fluid flow in a fuel cell comprising a first material which expands (m direct relation to fuel concentration.

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Comparison Chart

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99. (old claim 67) A method for determining a fluid concentration of fuel in a fuel cell comprising: a concentration of fuel in a fuel cell comprising: providing a dimensionally variable first material comprising a first material which expands in direct relation to fuel concentration. The providing a dimensionally variable first material comprising a first material which expands in cluded in new claim 99, which is based on fuel cell, wherein a conductor is disposed on or within the first material; As can be seen, all the features of allowed independent claim 87, "a first material which expands in direct relation to fuel concentration. The providing a fluid flow in a fuel cell independent claim 87, "a first material which expands in direct relation to fuel concentration." canceled method claim 67. The providing a fluid flow in a fuel cell independent claim 87, "a first material which expands in direct relation to fuel concentration." canceled method claim 67.
flowing an electrical current through said conductor; and
measuring an electrical property of said conductor, wherein as fuel concentration changes, the first material expands resulting in a proportionate change to the electrical property of said conductor.

Thus, new claims 90, 95 and 99 all include all the features of an allowed, broad independent claim to which the method claim relates. We also included a statement as required in the remarks section in the 312 Amendment.

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